

What is claimed is:

- 1 1. A method comprising periodically adjusting an access point output power in
2 a wireless network to reduce potential interference while communicating with
3 associated mobile stations.
- 1 2. The method of claim 1 wherein periodically adjusting an access point output
2 power comprises determining a path loss for each associated mobile station.
- 1 3. The method of claim 1 further comprising adjusting the access point output
2 power when a mobile station associates.
- 1 4. The method of claim 3 further comprising adjusting the access point output
2 power when the mobile station disassociates.
- 1 5. The method of claim 1 further comprising transmitting beacons at a full
2 access point output power.
- 1 6. A method comprising:
2 transmitting a beacon frame in a wireless network;
3 receiving a signal from a mobile station; and
4 adjusting an access point output power to reliably communicate with the
5 mobile station.
- 1 7. The method of claim 6 wherein adjusting an access point output power
2 comprises reducing the output power of frames other than beacon frames.
- 1 8. The method of claim 7 wherein adjusting an access point output power
2 further comprises transmitting beacon frames at a maximum power.

- 1 9. The method of claim 6 wherein adjusting an access point output power
2 comprises calculating a first path loss to the mobile station.
- 1 10. The method of claim 9 wherein adjusting an access point output power
2 further comprises setting the output power to overcome the path loss.
- 1 11. The method of claim 9 further comprising receiving a signal from a second
2 mobile station.
- 1 12. The method of claim 11 further comprising calculating a second path loss to
2 the second mobile station.
- 1 13. The method of claim 12 further comprising adjusting the output power to
2 overcome a greater of the first path loss and the second path loss.
- 1 14. A method comprising:
2 transmitting a beacon frame from an access point at a full power level; and
3 transmitting frames other than beacon frames from the access point at less
4 than the full power level.
- 1 15. The method of claim 14 wherein transmitting frames other than beacon
2 frames comprises transmitting at a power level high enough to overcome a path loss
3 to an associated mobile station.
- 1 16. The method of claim 15 further comprising adjusting the power level when
2 the associated mobile station disassociates.
- 1 17. The method of claim 15 further comprising adjusting the power level when
2 another mobile station associates.

1 18. The method of claim 14 further comprising periodically readjusting the
2 power level.

1 19. The method of claim 18 wherein periodically adjusting the power level
2 comprises determining a path loss to an associated mobile station.

1 20. An apparatus including a medium to hold machine-accessible instructions
2 that when accessed result in a machine performing:
3 transmitting a beacon frame from an access point at a full power level; and
4 transmitting frames other than beacon frames from the access point at less
5 than the full power level.

1 21. The apparatus of claim 20 wherein transmitting frames other than beacon
2 frames comprises transmitting at a power level high enough to overcome a path loss
3 to an associated mobile station.

1 22. The apparatus of claim 21 wherein machine-accessible instructions, when
2 accessed, result in the machine further performing adjusting the power level when
3 the associated mobile station disassociates.

1 23. The apparatus of claim 21 wherein machine-accessible instructions, when
2 accessed, result in the machine further performing adjusting the power level when
3 another mobile station associates.

1 24. An electronic system comprising:
2 an antenna;
3 a variable output power radio interface coupled to the antenna;
4 a processing apparatus coupled to the variable output power radio interface
5 to periodically adjust an output power to reduce potential interference while
6 communicating with associated mobile stations; and

7 an Ethernet interface coupled to the processing apparatus.

1 25. The electronic system of claim 24 further comprising an apparatus including
2 a medium to hold machine-accessible instructions that when accessed result in the
3 processing apparatus performing:
4 transmitting a beacon frame at a full power level; and
5 transmitting frames other than beacon frames at less than the full power
6 level.

1 26. The electronic system of claim 25 wherein transmitting frames other than
2 beacon frames comprises transmitting at a power level high enough to overcome a
3 path loss to an associated mobile station.